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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/207,130	12/08/1998	DANIEL VIERA CONRAD	RA9-98-053	6377
25299	7590 05/22/2003			
IBM CORPO		EXAMINER		
PO BOX 1219 DEPT 9CCA,	BLDG 002	ROBINSON BOYCE, AKIBA K		
RESEARCH	FRIANGLE PARK, NO	27709	ART UNIT	PAPER NUMBER
			3623 DATE MAILED: 05/22/2003	
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Please find below and/or attached an Office communication concerning this application or proceeding.

			A			
; - ' •		Application No.	Applicant(s)			
Office Action Summary		09/207,130	CONRAD ET AL.			
		Examiner	Art Unit			
		Akiba K Robinson-Boyce	3623			
The MAILING DATE of this c mmunication appears on the c ver sheet with the correspondence address Period for Reply						
THE N - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, apply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on 21 h	<u>//arch 2003</u> .				
2a)[This action is FINAL . 2b)⊠ Thi	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
· _	on of Claims					
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-15</u> is/are rejected.						
• • •	Claim(s) is/are objected to.					
•	Claim(s) are subject to restriction and/or on Papers	r election requirement.				
		r				
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) 🗆 1	The proposed drawing correction filed on					
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment	_					
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

Application/Control Number: 09/207,130 Page 2

Art Unit: 3623

DETAILED ACTION

Status of Claims

1. Due to communications filed 1/21/03 and 3/21/03, the following is a non-final office action. Claims 1-15 are pending in this application and have been examined on the merits. Claims 1, 7, 8, 14 and 15 have been amended. The previous rejection has been withdrawn, and the following rejection reflects the pending claims as amended.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/21/03 has been entered.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/207,130

Art Unit: 3623

4. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Binkley, et al (US Patent 5,088,033), in view of Weber (US Patent 5,812, 668).

As per claims 1, 2, 7, 8, 9, 14, 15, Binkley, et al discloses:

providing an emulation module interfacing directly with the operating system and corresponding to the device/providing an emulation object interfacing directly with the operating system and corresponding to the device /an emulation module interfacing directly with the operating system and corresponding to the device/an emulation object interfacing directly with the operating system and corresponding to the device (Col. 3, lines 34-37, Col. 8, lines 62-68).

ensuring that the application will utilize the emulation module when the application is executed on the development system/ensuring that the application will utilize the emulation object.../means for ensuring.../wherein the application is capable of utilizing the emulation module in lieu of the device.../emulating the interaction...(Col. 6, line 66-Col. 7, line 4);

executing the application on the development system independently of the point of sale system, wherein the emulation module and the application emulate the interaction between the application and the device that occurs when the application is executed on the point of sale equipment/wherein the application is executed on the system, the emulation module and the application independently.../wherein the application is executed on the development system, the emulation module and the application emulate the interaction...(Col. 1, lines 60-62, Col. 1, line 66-Col. 2, line 1, Col. 2, lines 9-19, Col. 7, lines 32-38, [where the examiner is interpreting the "development system" and the "point of sale system" of the present invention to be analogous to the "host system" and "target system" of Binkley, et al);

Application/Control Number: 09/207,130

Art Unit: 3623

ensuring that the application adequately utilizes the emulation object...(Col. 2, lines 9-13);

modifying the application...(Col. 1, lines 11-14, Col. 2, lines 13-19). allowing a developer to provide input...(Col. 50, lines 41-43); providing the input to the application in a form expected...(Col. 51, lines 3-17). Binkley, et al fails to teach the following, however, Weber discloses:

A point of sale environment/A point of sale system.../wherein the device is specialized for the point of sale equipment, (Col. 65, lines 54-63,w/ abstract, lines 1-11)

It would have been obvious to one of ordinary skill in the art for the device to be specialized for the point of sale equipment because the transactions that are being tested on a different computer in Weber (test gateway computer) are occurring in a pos environment. In this case, since transactions are occurring at a pos system, any device used at the pos must therefore be specialized or formatted to operate at the pos system.

As per claims 3, 10, Binkley, et al discloses:

wherein the application is platform independent...(Col. 58, line 46-Col. 59, line 10).

As per claim 5, 12, Binkley, et al discloses:

wherein the point of sale equipment includes a driver...(Col. 19, line 67-Col. 20, line 6).

As per claim 6, 13, Binkley, et al discloses:

wherein the emulation object emulates the driver and the device...(Col. 19, lines 11-15, Col. 19, line 67-Col. 20, line 6).

As per claims 4, 11, Binkley, et al fails to teach the following, however Weber discloses:

Art Unit: 3623

wherein the application is a JAVA application...(Col. 7, lines 15-17). It would have been obvious to one of ordinary skill in the art to make the application and the emulation object platform independent because in a computer environment, applications are constantly being changed around and depending on these changes and the needs of the user, the platforms will also need to change in order to fit the environment. It would have been obvious to one of ordinary skill in the art to make the application and the emulation object JAVA applications because JAVA is a common, distributed programming language that is simple and is used for object-oriented programming in the application development art.

Response to Arguments

5. Applicant's arguments filed 1/21/03 have been fully considered but they are not persuasive.

As per claims 1, 7, 8, 14 and 15, the applicant argues that the combination of Binkley et al and Weber fails to disclose a method, system or computer readable medium in which the emulation object is interfaced directly with the operating system or one that is used to emulate an interaction between an application and a point of sale system and that the emulation module used emulates devices that are particular to the point of sale system. However, Binkley et al discloses that the host system receives output I/O signals from the emulating processor in Col. 8, lines 62-66. Also in Col. 2, lines 9-19, Binkley et al discloses that the emulating processor provides/receives its output/input signals to/from the host system (performing emulation). Since the emulating processor contains the emulation object during processing, then the host system of Binkley et al, which serves as the operating system of the present invention,

Art Unit: 3623

is in direct communication with the emulation object during the I/O communication described in Binkley et al. In addition, the combination of Binkley et al and Weber discloses a system used to emulate an interaction between an application and a point of sale system and that the emulation module used emulates devices that are particular to the point of sale system. In Binkley et al, the pos is represented by the target system since this is the system in which the application is being developed. The Weber reference was combined with the Binkley et al reference to re-enforce that a pos environment could specifically be utilized in this type of emulation environment. Weber shows this pos environment where the test gateway is used with a generic pos system for a merchant located at the actual pos system in order to verify the operation of the actual pos system or remote transaction clearance system. In this system, transaction responses that come from the gateway computer include configuration data that can be used by the merchant-operated computer to configure itself to access a production gateway computer. In this case, the production computer represents the pos system of the present invention, the merchant-controlled computer represents the development system of the present invention, the simulated transaction responses that include configuration data for the merchant-controlled computer represent the emulation element and the test gateway computer represents the emulation environment. In both Binkley et al and Weber, specialized devices can be interfaced with the systems via the peripheral interfaces disclosed in both patents. Since peripheral interfaces are disclosed in Weber, and Weber also discloses a pos environment, then it is obvious to

conclude that the peripheral devices should accommodate the environment and consist of point of sale equipment.

Claims 2-6 depend from independent claim 1 and are rejected for the same reasons as discussed with respect to claim 1. Similarly, Claims 9-13 depend from independent claim 8 and are rejected for the same reasons as discussed with respect to claim 8.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Akiba Robinson-Boyce whose telephone number is 703-305-1340. The examiner can normally be reached on Monday-Friday 8:30 am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on 703-305-9643. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7238 [After final communications, labeled "Box AF"], 703-746-7239 [Official Communications], and 703-746-7150 [Informal/Draft Communications, labeled "PROPOSED" or "DRAFT"].

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

A. R.-B.

May 20, 2003

TARIO R. HAFIZ
SUPERVISORY PATENT EXAMINER
SUPERVISORY CENTER 3600